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PREMIUMS

OFFERED BY THE

SOCIETY

FOR THE ENCOURAGEMENT OF

ARTS, MANUFACTURES

AND

COMMERCE,

IN THE YEAR

M.DCC.LXXXIX.

TO THE

PUBLIC.

ADELPHI-BUILDINGS,
April 8, 1789.

THE chief objects of the attention of the Society for the Encouragement of Arts, Manufactures, and Commerce, in the application of their Rewards, are Ingenuity in the ſeveral branches of the POLITE and LIBERAL ARTS, uſeful Diſcoveries and Improvements in AGRICULTURE, MANUFACTURES, MECHANICKS, and CHEMISTRY, or the laying open any ſuch to the Public; and in general, all ſuch uſeful Inventions, Diſcoveries, or Improvements (though not mentioned in the Book of Premiums) as may appear to have a tendency to the advantage of Trade and Commerce. The Society therefore, in purſuance of their plan, propoſe to beſtow the following Premiums,

Premiums for Planting and Huſbandry.

1. ACORNS. For having ſet, agreeably to the conditions publiſhed in the liſt of premiums laſt year, between the firſt of October, 1788, and the firſt of April, 1789, the greateſt quantity of ſtrong land, not leſs than ten acres, with Acorns, and ſeeds or cuttings of other trees, and for the effectually fencing and preſerving the ſame, in order to raiſe timber and underwood; the gold medal.

2. For the ſecond greateſt quantity of land, not leſs than five acres, ſown or ſet agreeably to the above conditions, the ſilver medal.

CERTIFICATES of ſetting or ſowing agreeably to the above conditions, and that there are not fewer than three hundred young Oaks on each acre, to be delivered to the Society on or before the firſt Tueſday in November, 1789.

3, 4.

3, 4. The ſame premiums are extended one year further.

CERTIFICATES to be produced on or before the firſt Tueſday in November, 1790.

5, 6. The ſame premiums are extended one year further.

CERTIFICATES to be produced on or before the firſt Tueſday in November 1791.

7, 8. The ſame premiums are extended one year further.

CERTIFICATES to be produced on or before the firſt Tueſday in November, 1792.

9. RAISING OAKS. To the perſon who ſhall have raiſed the greateſt number of Oaks, not fewer than five thouſand, either from young plants, or from acorns, in woods, parks, or foreſts, that have long been under timber, and effectually fenced and preſerved the ſame, in order to ſecure a ſucceſſion of oak timber in this kingdom; the gold medal.

10. For the next greateſt quantity, not fewer than three thouſand, the ſilver medal.

CERTIFICATES and Accounts to be produced on or before the firſt Tueſday in January, 1790.

11, 12. The ſame premiums are extended one year further.

CERTIFICATES that there were on the land, upon the firſt of November, 1790, at leaſt the number of young Oak-trees required, in a thriving condition, effectually fenced and preſerved, with an account of the methods purſued in making and managing the plantation, to be produced to the Society on or before the firſt Tueſday in January, 1791.

13, 14. The ſame premiums are extended one year further. Certificates to be produced on or before the firſt Tueſday in January, 1792.

15. OBSERVATIONS ON OAK. To the perſon who ſhall furniſh the beſt obſervations and experiments on the various obſtructions

obſtructions to the growth of Oak trees, with appoſite remedies for the ſame; and ſhall alſo aſcertain thoſe appearances on Oak trees, which may ſerve to ſhow them to have arrived at the proper period, and to be in a fit ſtate to be felled, for the purpoſes of ſhip-building, and other uſes; the gold medal, or twenty guineas.

The accounts to be produced to the Society on or before the third Tueſday in December, 1789.

16. The ſame premium is extended one year further. The accounts to be produced on or before the third Tueſday in December, 1790.

17. CHESNUTS. For having ſown or ſet, agreeably to the conditions publiſhed in the liſt of premiums laſt year, between the firſt of October, 1788, and the firſt of April, 1789, the greateſt quantity of dry loamy land, not leſs than ſix acres, with a mixture of Spaniſh Cheſnuts, and the ſeeds or cuttings of other trees adapted to ſuch

ſoil, and for effectually fencing and preſerving the ſame, in order to raiſe timber; the gold medal.

18. For the ſecond greateſt quantity, not leſs than four acres, the ſilver medal.

CERTIFICATES of ſowing or ſetting agreeably to the above conditions, and that there are not fewer than three hundred Cheſnut plants, in a thriving ſtate, on each acre, to be delivered to the Society on or before the firſt Tueſday in November, 1789.

19, 20. The ſame premiums are extended one year further.

CERTIFICATES to be delivered on or before the firſt Tueſday in November, 1790.

21, 22. The ſame premiums are extended one year further.

CERTIFICATES to be delivered on or before the firſt Tueſday in November, 1791.

23, 24. The ſame premiums are extended one year further.

CERTI-

CERTIFICATES to be delivered on or before the firſt Tueſday in November 1792.

25. ELM. For having planted the greateſt number of the Engliſh Elm, not leſs than eight thouſand, between the twenty-fourth of June, 1788, and the twenty-fourth of June, 1789, and for the having effectually fenced and preſerved the ſame, in order to raiſe timber; the gold medal.

26. For the ſecond greateſt number, not leſs than five thouſand, the ſilver medal.

27. For the third greateſt number, not leſs than four thouſand, the ſilver medal.

CERTIFICATES of the having planted, agreeably to the above conditions, and ſpecifying the diſtance of the trees, muſt be delivered to the Society, on or before the firſt Tueſday in November, 1789.

28, 29, 30. The ſame premiums are extended one year further.

CERTI-

CERTIFICATES of the having planted agreeably to the above conditions, that the plants were in a healthy and thriving ſtate two years at leaſt after making the plantation, and ſpecifying the diſtance of the plants, to be delivered to the Society on or before the firſt Tueſday in November, 1792.

31, 32, 33. The ſame premiums are extended one year further.

CERTIFICATES to be produced on or before the firſt Tueſday in November, 1793.

34. LARCH. For having planted out, from the twenty-fourth of June, 1788, to the twenty-fourth of June, 1789, at a diſtance not more than five feet, the greateſt number of Larch-trees, not leſs than five thouſand; the plants to be between two and four years old when planted out; and for having effectually fenced and preſerved the ſame, in order to raiſe timber; the gold medal.

35.

35. For the ſecond greateſt number, not leſs than three thouſand, the ſilver medal.

CERTIFICATES of having planted agreeably to the above conditions, to be delivered on or before the laſt Tueſday in November, 1789.

36. LARCH. For having planted out, between the twenty-fourth of June, 1789, and the twenty-fourth of June, 1790, in a mixed plantation of foreſt-trees, the greateſt number of Larch-trees, not fewer than five thouſand, and for having effectually fenced and preſerved the ſame, in order to raiſe timber; the gold medal.

37. For the next greateſt number, not fewer than three thouſand, the ſilver medal.

CERTIFICATES of the number of plants, that they were in a healthy and thriving ſtate two years at leaſt after they were planted out, with a general account of the methods uſed in making the plantation, to be delivered to the Society on or before the laſt Tueſday in December, 1793.

38.

38, 39. The ſame premiums are extended one year further.

CERTIFICATES to be produced on or before the laſt Tueſday in December, 1794.

40. SILVER FIR. For having planted out, between the twenty-fourth of June, 1789, and the twenty-fourth of June, 1790, in a mixed plantation of foreſt-trees, the greateſt number of Silver Firs, not fewer than two thouſand; and for having effectually fenced and preſerved the ſame, in order to raiſe timber; the gold medal.

41. For the next greateſt number, not fewer than one thouſand, the ſilver medal.

CERTIFICATES of the number of plants, that they were in a healthy and thriving ſtate two years at leaſt after they were planted out, with a general account of the methods uſed in making the plantation, to be delivered to the Society on or before the laſt Tueſday in December, 1793.

42, 43. The ſame premiums are extended one year further.

CERTIFICATES to be produced on or before the laſt Tueſday in December, 1794.

44. HUNTINGDON WILLOW. For the greateſt number of acres, not leſs than three, planted in the year 1788, with Huntingdon Willows; the number of cuttings to be at leaſt one thouſand on each acre, properly fenced and ſecured; the gold medal.

CERTIFICATES to be produced on or before the laſt Tueſday in December, 1789.

45. The ſame premium is extended one year further.

CERTIFICATES to be produced on or before the laſt Tueſday in December, 1790.

46. UPLAND OR RED WILLOW. For the greateſt number of acres, not leſs than three, planted before the end of April, 1788, with Upland or Red Willow, properly fenced and ſecured, the number of plants on each acre to be at leaſt twelve hundred, the gold medal.

CERTIFICATES of the number of plants, and that they were in a thriving ſtate at the time of ſigning ſuch certificates, to be produced to the Society on or before the laſt Tueſday in April, 1790.

47. The ſame premium is extended one year further.

CERTIFICATES to be produced on or before the laſt Tueſday in April, 1791.

It is well known that this ſpecies of willow thrives well on dry ſandy land.

48. ALDER. For the greateſt number of acres, not leſs than ſix, planted in the year 1788 with Alders, to be at leaſt one thouſand on each acre, properly fenced and ſecured; the gold medal.

CERTIFICATES to be produced to the Society on or before the laſt Tueſday in December, 1789, of the ſaid planting, and that the trees were then growing on the land.

49. ALDER. For having planted in the year 1789 the greateſt number of Alders, not leſs than three thouſand on an eſtate, the property of one perſon; the gold medal.

CERTIFICATES of the number of the plants, and that they were in a thriving ſtate two years at leaſt after being planted, to be delivered to the Society on or before the laſt Tueſday in December, 1792.

50. The ſame premium is extended one year further.

CERTIFICATES to be delivered on or before the laſt Tueſday in December, 1793.

51. ASH. For having ſown or ſet in the year 1788, the greateſt quantity of land, not leſs than ſix acres, with Aſh for timber, intermixed with the ſeeds, cuttings, or plants of ſuch other trees as are adapted to the ſoil; the gold medal.

52. For the next greateſt quantity, not leſs than four acres, the ſilver medal.

CERTIFICATES of the ſowing or ſetting agreeably to the above conditions, and that there are not fewer than one hundred Aſh plants on each acre, to be delivered to the Society on or before the laſt Tueſday in December, 1789.

53, 54. The ſame premiums are extended one year further.

CERTIFICATES to be delivered on or before the laſt Tueſday in December, 1790.

55. ASH. For having ſown or ſet in the year 1790, the greateſt quantity of land, not leſs than ſix acres, with Aſh for timber, intermixed with ſeeds, cuttings, or plants of ſuch other trees as are adapted to the ſoil; the gold medal.

56. For the next greateſt quantity, not leſs than four acres, the ſilver medal.

CERTIFICATES of the ſowing or ſetting agreeably to the above conditions, that there are not fewer than one hundred Aſh plants on each acre, in a thriving and healthy

healthy condition, two years at leaſt after the ſowing or ſetting, with a general account of the methods uſed in making the plantation, to be delivered to the Society on or before the laſt Tueſday in December, 1793.

57, 58. The ſame premiums are extended one year further.

CERTIFICATES to be delivered on or before the laſt Tueſday in December, 1794.

59. MIXED TIMBER TREES. To the perſon who ſhall have incloſed, planted, or ſown the greateſt number of acres, not leſs than ten, with the beſt ſorts of Foreſt trees, for timber, between the firſt of October, 1785, and the firſt of May, 1787; the gold medal.

An Account of the methods uſed in making the plantations, and of the nature of the ſoil, together with proper Certificates that the trees were in a thriving and healthy ſtate two years at leaſt after

making the plantation, to be delivered to the Society on or before the firſt Tueſday in November, 1789.

60. The ſame premium is extended one year further.

The Accounts and Certificates to be delivered to the Society on or before the firſt Tueſday in November, 1790.

61. The ſame premium is extended one year further.

The Accounts and Certificates to be delivered to the Society on or before the firſt Tueſday in November, 1791.

62. The ſame premium is extended one year further.

The Accounts and Certificates to be delivered to the Society on or before the firſt Tueſday in November 1792.

63. MULBERRY CUTTINGS OR TREES. For having planted the greateſt number of White or Black Mulberry Cuttings

tings or Trees, not fewer than three hundred, in the year 1787, for the purpoſe of feeding Silk-worms; the gold medal, or twenty pounds.

64. For the ſecond greateſt quantity, not fewer than one hundred and fifty, the ſilver medal, or ten pounds.

CERTIFICATES of ſuch planting, with the manner of culture, and that the trees were growing in the month of July, 1789, to be produced to the Society on or before the firſt Tueſday in November, 1789.

65, 66. The ſame premiums are extended one year further.

CERTIFICATES to be produced on or before the firſt Tueſday in November, 1790.

67, 68. The ſame premiums are extended one year further.

CERTIFICATES to be produced on or before the firſt Tueſday in November, 1791.

69. MULBERRY TREES IN HEDGE ROWS. To the perſon who ſhall plant, in the year 1788, the greateſt number, not fewer than one hundred layers, of the Black or White Mulberry, in Hedge Rows, at a diſtance not leſs than twelve feet from each other, ten pounds.

70. For the next greateſt number not leſs than fifty, five pounds.

CERTIFICATES of the number of plants, and that the trees were then in a growing ſtate, to be produced to the Society on or before the firſt Tueſday in October, 1789.

71, 72. The ſame premiums are extended one year further.

CERTIFICATES to be produced on or before the firſt Tueſday in October, 1790.

*** *The Candidates for planting all kinds of Trees are to certify, that the reſpective Plantations are properly fenced and ſecured, and particularly to ſtate the Condition the Plants*

Plants were in at the time of ſigning ſuch Certificates.

Any information which the Candidates for the foregoing Premiums may chooſe to communicate, relative to the methods made uſe of in forming the Plantation, or promoting the growth of the ſeveral Trees, or any other obſervations that may have occurred on the ſubject, will be thankfully received.

73. TREES FOR USE WHEN EXPOSED TO THE WEATHER. To the perſon who ſhall ſend the moſt ſatisfactory account, verified by experiments, to determine which of the following trees is of the greateſt utility for timber or poles, for uſe, when expoſed to the weather; viz.

Larch,	Black Poplar,
Aſh,	Spaniſh Cheſnut,
Willow,	Alder,
Beech,	Silver Fir;
Lombardy Poplar,	

the gold medal.

The

The Accounts to be produced on or before the ſecond Tueſday in December, 1789.

74. The ſame premium is extended one year further.

The Accounts to be produced on or before the ſecond Tueſday in December, 1790.

75. PLANTING BOGGY OR MORASSY SOILS. For an account of the beſt ſet of experiments ſent by the planter or his repreſentative, to aſcertain the comparative advantages of planting boggy or moraſſy ſoils with White Poplar, Black Poplar, Lombardy Poplar, and Willow; the gold medal, or twenty guineas.

It is required that not leſs than half an acre be planted with each, and the plants to be not more than four feet aſunder.

It is alſo required that the plantation ſtand fourteen years, at the end of which

to

to be all cut down and meaſured, or accurately meaſured ſtanding; the Certificates of the meaſure and value, and that the whole is properly fenced and ſecured, to be produced on or before the firſt Tueſday in January, 1792.

N. B. Any information relating to the ſtate of the plantation, if ſent to the Society between the time of planting, and claiming the premium, will be thankfully received.

76. The ſame premium is extended one year further.

CERTIFICATES to be produced on or before the firſt Tueſday in January, 1793.

77. The ſame premium is extended one year further.

CERTIFICATES to be produced on or before the firſt Tueſday in January, 1794.

78. The ſame premium is extended to the year 1796.

CERTI-

CERTIFICATES to be produced on or before the firſt Tueſday in January, 1797.

79. The ſame premium is extended one year further.

CERTIFICATES to be produced on or before the firſt Tueſday in January, 1798.

80. COMPARATIVE CULTURE OF WHEAT. For the beſt ſet of experiments made on not leſs than eight acres, four of which to be ſown broad-caſt and four drilled, to aſcertain whether it is moſt advantageous to cultivate Wheat by ſowing it in the common broad-caſt way, or by drilling it in equi-diſtant rows, hoeing the intervals; the gold medal, or the ſilver medal and twenty guineas.

It is required that an account of the nature and condition of the land on which the experiments are made, together with an account of the produce of the corn, be produced to the Society on or before the firſt Tueſday in February, 1790.

81.

81. The ſame premium is extended one year further.

The Accounts to be produced to the Society on or before the firſt Tueſday in February, 1791.

82. COMPARATIVE CULTURE OF WHEAT. For the beſt ſet of experiments made on not leſs than eight acres of land, four of which to be ſown broad-caſt and four dibbled, to aſcertain whether it is moſt advantageous to cultivate Wheat by ſowing it in the common broad-caſt way, or by dibbling it in equidiſtant rows, hoeing the intervals; the gold medal, or the ſilver medal and twenty guineas.

It is required that an account of the nature and condition of the land on which the experiments are made, together with an account of the produce of the corn, be produced to the Society on or before the firſt Tueſday in February, 1790.

83. The ſame premium is extended one year further. The Accounts to be produced to the Society on or before the firſt Tueſday in February, 1791.

84. BEANS AND WHEAT. To the perſon who ſhall have planted or drilled, between the firſt of September, 1787, and the firſt of March, 1788, the greateſt quantity of land, not leſs than ten acres, with Beans, and ſhall ſow the ſame land with Wheat in the ſame year, 1788; twenty guineas.

It is required that an account of the ſort and quantity of Beans, the time of planting or drilling, and of reaping or mowing them, the produce per acre threſhed, the application of the ſtraw, the expence of planting or drilling, hand or horſe-hoeing, the diſtance of the rows, and the quality of the ſoil, together with Certificates of the number of acres, and that the land was actually ſown with Wheat in the year 1788, to be produced

produced on or before the firſt Tueſday in November, 1789.

N. B. the Society have been informed that Beans may be drilled or planted ſo early as the month of December, from whence may be derived the advantage of an early harveſt; in which caſe the ſtraw will be far more valuable than that from a later planting or drilling.

85. The ſame premium is extended one year further. The Accounts to be produced on or before the firſt Tueſday in November, 1790.

86. TURNEPS. For the beſt account of experiments made on at leaſt ſix acres of land, to determine the comparative advantage of the drill or broad-caſt method in the cultivation of Turneps; the gold medal, or the ſilver medal and ten guineas.

The Accounts to be delivered in, on or before the third Tueſday in April, 1790.

87.

87. The ſame premium is extended one year further.

The Accounts to be delivered on or before the third Tueſday in April, 1791.

88. GREEN VEGETABLE FOOD. For the beſt account, confirmed by experiments, of the vegetable Food (Cabbages and Turneps excepted), growing in the months of March and April, that will moſt increaſe the milk in Mares, Cows, and Ewes, at that ſeaſon; provided ſuch food can be cultivated at an expence that will admit of its being applied to the above purpoſes; the gold medal.

CERTIFICATES to be produced on or before the ſecond Tueſday in November, 1789.

89. The ſame premium is extended one year further.

CERTIFICATES to be produced on or before the ſecond Tueſday in November, 1790.

90.

90. COMPARATIVE CULTURE OF THE TURNEP-ROOTED CABBAGE. To the perſon who ſhall produce to the Society the beſt account of the moſt ſatisfactory experiments, made on at leaſt four acres of land, to aſcertain the comparative advantages of the culture of the Turnep-rooted Cabbage, by ſowing it broad-caſt, and hoeing out the plants, as is practiſed with the common Turnep, or by ſowing the ſeed in nurſeries, and tranſplanting the plants at proper diſtances, hoeing the intervals; the ſilver medal and ten pounds.

It is required that at leaſt two acres be cultivated in each manner, and Certificates of the culture, with an account of the ſoil, expence, and produce of each ſeparately, be produced on or before the firſt Tueſday in October, 1791.

91. The ſame premium is extended one year further.

CERTIFICATES and Accounts to be produced on or before the firſt Tueſday in October, 1792.

92. The ſame premium is extended one year further.

CERTIFICATES and Accounts to be produced on or before the firſt Tueſday in October, 1793.

93. TURNEP-ROOTED CABBAGE. For having raiſed and duly cultivated Turnep-rooted Cabbage, in the year 1788, for the feeding Cattle or Sheep, on the greateſt number of acres, not leſs than ten, and giving an account of the ſoil, culture, time and manner of feeding off, produce, and the effects on cattle or Sheep fed with it; the gold medal.

94. For the next greateſt number of acres, not leſs than five, the ſilver medal and ten guineas.

CERTIFICATES of the quantity of land, with the accounts, to be produced on

or

or before the laſt Tueſday in October, 1789.

95. The ſame premium is extended one year further.

CERTIFICATES to be produced on or before the laſt Tueſday in October, 1790.

96. The ſame premium is extended one year further.

CERTIFICATES to be produced on or before the laſt Tueſday in October, 1791.

97. CURE OF THE CURLED POTATOE. To the perſon who ſhall diſcover to the Society the nature and cauſe of the diſeaſe in the Potatoe-plant called THE CURLED POTATOE, and point out an effectual cure, the whole verified by repeated and ſatisfactory experiments, the gold medal, or thirty pounds.

The Accounts to be produced to the Society on or before the third Tueſday in November, 1789.

98. The ſame premium is extended one year further.

The accounts to be produced on or before the third Tueſday in November, 1790.

99. POTATOES FOR FEEDING CATTLE AND SHEEP. To the perſon who, in the year 1788, ſhall have cultivated the greateſt quantity of land, not leſs than four acres, with Potatoes, for the ſole purpoſe of feeding Cattle and Sheep, the gold medal, or twenty guineas.

CERTIFICATES, with ſatisfactory Accounts of the expence and manner of cultivating the Potatoes, and the application of them to the above purpoſes, and the ſucceſs that has attended the uſe of them, to be delivered to the Society on or before the ſecond Tueſday in November, 1789.

100. The ſame premium is extended one year further.

CERTI-

CERTIFICATES to be delivered on or before the ſecond Tueſday in November, 1790.

101. The ſame premium is extended one year further.

CERTIFICATES to be delivered on or before the ſecond Tueſday in November, 1791.

N. B. Should any Gentleman have already cultivated Potatoes for the purpoſes mentioned in the above advertiſement, any information from him on the ſubject will be thankfully received by the Society.

102. CULTIVATING ROOTS AND HERBAGE FOR FEEDING SHEEP AND BLACK CATTLE. For the moſt ſatisfactory experiments made between Michaelmas, 1788, and the firſt of May, 1789, in order to aſcertain which of the following plants can be cultivated and houſed, or otherwiſe ſecured for winter fodder, to the greateſt advantage, viz.

Turnep-rooted Cabbage, Carrots,
Turnep Cabbage, Parſneps,
Turneps, Potatoes;
the gold medal.

The Accounts to be produced on or before the firſt Tueſday in November, 1789.

It is required that the above roots be taken off the land by the laſt day of October, 1788; that a Crop of Wheat may be ſown in the ſame ground, and the particulars of the ſowing and planting, taking up, produce, preſerving, and application to the feeding Sheep and Black Cattle, be ſpecified. The comparative experiments muſt be made between two or more of any of the above-mentioned plants, and not leſs than two acres be cultivated with each particular kind of plant.

N. B. Great advantage will ariſe to the Farmer occupying land in the neighbourhood of extenſive commons, from the conveniency of keeping large flocks of Sheep

Sheep, and herds of Cattle, if the difficulty of ſupporting them through the winter was obviated by a due knowledge of this practice.

103. The ſame premium is extended one year further.

CERTIFICATES to be produced on or before the firſt Tueſday in November, 1790.

104. STALL-FEEDING HORSES WITH GREEN VEGETABLES. To the perſon who ſhall keep the greateſt number of horſes, not fewer than four, in the Stall or Stable, during the greateſt number of months in the year, on Carrots, Potatoes, Lucern, Saintfoin, Clover, Vetches, or any other green vegetable food raiſed on land in his own poſſeſſion; the ſilver medal and ten guineas.

It is required that the number of horſes ſo fed, the quantity of land employed in raiſing the green vegetable food, the quan-

tity of hay and corn (if any) conſumed, the ſtate and condition of the horſes, and an account of the work done by them, be fully and particularly ſpecified.

The Accounts and Certificates to be produced to the Society on or before the ſecond Tueſday in February 1790.

105. STOCKS OF BEES. To the perſon who ſhall have in his poſſeſſion, being his own property, the greateſt number of Stocks of Bees, not fewer than thirty, and who ſhall in the moſt judicious manner provide for them plenty of ſuch vegetables as afford them honey and wax, the gold medal, or twenty pounds.

106. For the next greateſt number, not fewer than twenty ſtocks, the ſilver medal, or ten pounds.

Proper CERTIFICATES of the number of Stocks, and that they have been in the poſſeſſion of the Claimant during the preceding ſummer, together with a particular account

account of the vegetables provided for their ſuſtenance, and the manner in which they have been managed, to be produced to the Society on or before the firſt Tueſday in November, 1789.

107. The ſame premium is extended one year further.

CERTIFICATES to be delivered on or before the laſt Tueſday in November, 1790.

108. The ſame premium is extended one year further.

CERTIFICATES to be delivered on or before the laſt Tueſday in November, 1791.

109. CULTIVATING THE TRUE RHUBARB. For having raiſed, before the end of the year 1789, the greateſt number of plants, not leſs than three hundred, of Rheum Palmatum, or true Rhubarb, the gold medal.

110. For the next greateſt number, not leſs than two hundred plants, the ſilver medal.

CERTIFICATES of the number of plants, that they ſtand at leaſt four feet aſunder, that they have been in a thriving ſtate during the preceding ſummer, with an account of the ſoil, culture, and aſpect, to be produced on or before the ſecond Tueſday in February, 1790.

111, 112. The ſame premiums are extended one year further.

CERTIFICATES to be produced on or before the ſecond Tueſday in February, 1791.

113. RHUBARB. For the greateſt quantity of Rhubarb of Britiſh growth, not leſs than twenty pounds weight, equal to ſuch as is commonly ſold in the ſhops under the name of Turkey or Ruſſia Rhubarb; five pounds of which to be produced as a ſample, with Certificates that the remainder

mainder is of equal goodneſs, and a particular Account of the manner of culture and cure, on or before the firſt Tueſday in November, 1789; the gold medal.

114. For the next greateſt quantity, not leſs than ten pounds weight, the ſilver medal.

115, 116. The ſame premiums are extended one year further.

The Samples and Certificates to be produced on or before the firſt Tueſday in November, 1790.

117. ASCERTAINING THE COMPONENT PARTS OF ARABLE LAND. To the perſon who ſhall produce to the Society the moſt ſatisfactory ſet of experiments, to aſcertain the due proportion of the ſeveral component parts of Arable Land, in one or more counties in Great Britain, by an accurate analyſis of it; and who having made a like analyſis of ſome poor land, ſhall, by comparing the component

ponent parts of each, and thereby aſcertaining the deficiencies in the poor ſoil, improve a quantity of it not leſs than two acres, by the addition of ſuch parts as the former experiments ſhall have diſcovered to be wanting therein, and therefore probably the cauſe of its ſterility; the gold medal.

It is required that the manurings, ploughings, and crops of the improved land, be the ſame after the improvement as before; and that a minute account of the produce in each ſtate, of the weather, and of the various influencing circumſtances, together with the method made uſe of in analyſing the ſoils, be produced, with proper Certificates, and the chemical reſults of the analyſis, which are to remain the property of the Society, on or before the laſt Tueſday in November, 1789.

It is expected that a quantity not leſs than ſix pounds, of the rich, of the poor, and of the improved ſoils, be produced with the Certificates.

N. B.

N. B. Among the methods or proceſſes made uſe of by Chemiſts, and called DRY or MOIST, the latter only appears adapted to the aſcertaining the reſpective proportions of the component parts of Arable earth.—Dr. Shaw, in his Chemical Lectures; Dr. Home, in his Principles of Agriculture; Dr. George Fordyce, in his Elements of Agriculture; and Sir Torben Bergman, in his "Diſſertation ſur les Terres Géoponiques;" have treated of theſe ſubjects.

118. The ſame premium is extended one year further.

The Accounts to be produced on or before the laſt Tueſday in November, 1790.

119. The ſame premium is extended one year further.

The Accounts to be produced on or before the laſt Tueſday in November, 1791.

120.

120. The ſame premium is extended one year further.

The Accounts to be produced on or before the laſt Tueſday in November, 1792.

121. The ſame premium is extended one year further.

The Accounts to be produced on or before the laſt Tueſday in November, 1793.

122. IMPROVING LAND LYING WASTE. For the beſt Account of a method of improving any of the following ſoils, being land lying waſte or uncultivated, viz. Clay, Gravel, Sand, Chalk, Moor or Peat-earth, and Bog; verified by experiments on not leſs than ten acres of land, to be produced on or before the ſecond Tueſday in December, 1789; the gold medal, or the ſilver medal and twenty guineas, for each.

123. For the next in merit, the ſilver medal.

The

The ſoil, manner of improvement, expence, and product, are required to be fully explained.

124, 125. The ſame premiums are extended one year further.

The Accounts to be produced on or before the ſecond Tueſday in December, 1790.

126, 127. The ſame premiums are extended one year further.

The Accounts to be produced on or before the ſecond Tueſday in December, 1791.

128. MANURES. To the perſon who ſhall give the moſt ſatisfactory account, verified by accurate experiments, on what ſoil the application of Marl, Chalk, Lime, or Clay, ſeverally, as manures, be moſt beneficial; the gold medal, or the ſilver medal and twenty guineas.

It is required that each experiment be made on one acre, and that they be continued

tinued four years, the ſame kind of grain being ſown the ſame year on the ſeveral ſpots.

It is alſo required, that if different manures are compared, the experiments be made on ſimilar ſoils, lying near each other.

An Account of the nature of the ſoil, manure, and the quantity laid on, with all expences, and crops, to be delivered, with ſpecimens of the ſoil and manure, on or before the firſt Tueſday in January, 1790.

129. The ſame premium is extended one year further.

The Accounts and ſpecimens to be produced on or before the firſt Tueſday in January, 1791.

130. MANURES. For the moſt ſatisfactory ſet of experiments, to aſcertain the comparative advantages of the following Manures, uſed as Top-dreſſings, on Graſs or Corn Land, viz. Soot, Coal-Aſhes,

Aſhes, Wood-Aſhes, Lime, Night-Soil; the gold medal, or the ſilver medal and twenty guineas.

It is required that not leſs than half an acre of land be appropriated to each Manure, the ſoils ſimilar, and lying near each other; and if the Manure be uſed on Corn Land, then it is required that the ſame kind of Grain be ſown the ſame year on each ſpot; the experiments to be continued not leſs than two years.

An Account of the nature of the ſoil, quantity and expence of the Manure and Crops, with Certificates, to be produced on or before the firſt Tueſday in December, 1789.

131. The ſame premium is extended one year further.

The Account and Certificates to be produced on or before the firſt Tueſday in December, 1790.

132. IMPROVING WASTE MOORS. For the improvement of the greateſt number of acres of Waſte Moor Land, not leſs than one hundred, the gold medal.

It is required that the land before improvement be abſolutely uncultivated, in a great meaſure uſeleſs, not let to any tenant, and without any building upon it except cottages or huts; that in its improved ſtate it ſhall be incloſed, cultivated, and divided into fields, with buildings erected thereon ſufficient for the uſe and reſidence of a tenant.

CERTIFICATES of the number of acres, of the quality of the Moor ſo improved, of the mode and expence of the improvement, the ſtate it is in as to the proportion of graſs to arable, and the rent at which it is let, to be produced on or before the firſt Tueſday in February, 1790.

133. IMPROVING WASTE MOORS. For the improvement of the greateſt number

ber of acres of Waſte Moor Land, not leſs than one hundred, the gold medal.

It is required that the land before improvement be abſolutely uncultivated, and in a great meaſure uſeleſs; that in its improved ſtate it be incloſed, cultivated, and divided into fields, ſufficient for the uſe and occupation of a tenant.

CERTIFICATES of the number of acres, of the quality of the Moor ſo improved, of the mode and expence of the improvement, the ſtate it is in as to the proportion of graſs to arable, and the average value thereof, to be produced on or before the firſt Tueſday in February, 1791.

134. The ſame premium is extended one year further.

CERTIFICATES to be produced on or before the firſt Tueſday in February, 1792.

135. The ſame premium is extended one year further.

CERTIFICATES to be produced on or before the firſt Tueſday in February; 1793.

136. GAINING LAND FROM THE SEA. To the perſon who ſhall produce to the Society an account of the beſt method, verified by actual experiment, of gaining Land from the Sea, not leſs than twenty acres, on the coaſt of England or Wales, the gold medal.

CERTIFICATES of the quantity of Land, and that the experiments were begun after the firſt of January, 1784, to be produced to the Society on or before the firſt Tueſday in October, 1789.

N. B. The Society have been credibly informed, that Land has been gained on the coaſt of Holland, by fixing rows of whiſps of ſtraw upright in the ſand, at about a foot diſtant from each other, or by fixing ſtakes at proper diſtances from each other, and whatling ſtraw bands between them.

137. The ſame premium is extended one year further.

CERTIFICATES to be produced on or before the firſt Tueſday in October, 1790.

138.

138. The ſame premium is extended one year further.

CERTIFICATES to be produced on or before the firſt Tueſday in October, 1791.

139. The ſame premium is extended one year further.

CERTIFICATES to be produced on or before the firſt Tueſday in October, 1792.

140. MACHINE TO ANSWER THE PURPOSE OF REAPING OR MOWING CORN. For inventing a Machine to anſwer the purpoſe of mowing or reaping Wheat, Rye, Barley, Oats, or Beans, by which it may be done more expeditiouſly and cheaper than by any method now practiſed, provided it does not ſhed the Corn or Pulſe more than the methods in common practice, and that it lays the ſtraw in ſuch manner as that it may be eaſily gathered up for binding; ten guineas.

The Machine, with Certificates that at leaſt three acres have been cut by it, to be

produced to the Society on or before the ſecond Tueſday in December, 1789.

Simplicity and cheapneſs in the conſtruction will be conſidered as principal parts of its merit.

141. The ſame premium is extended one year further.

The Machine and Certificates to be produced on or before the ſecond Tueſday in December, 1790.

142. IMPROVED HOE. To the perſon who ſhall produce to the Society the moſt improved or beſt conſtructed Horſe or Hand Hoe, ſuperior to any hitherto in uſe, for the purpoſe of clearing from Weeds, and looſening the Soil in, the intermediate ſpaces of all Crops of Corn ſown in equidiſtant rows, and which ſhall earth up the young Plants at the ſame time; the gold medal, or twenty guineas.

A Hoe, with certificates of its having been ſucceſsfully uſed, to be produced to the Society on or before the firſt Tueſday in December, 1789.

143.

143. The ſame premium is extended one year further.

The Hoe, with Certificates, to be produced on or before the firſt Tueſday in December, 1790.

144. DESTROYING THE GRUB OF THE COCKCHAFER. To the perſon who ſhall diſcover to the Society an effectual method, verified by repeated and ſatisfactory trials, of deſtroying the Grub of the Cockchafer, ſo deſtructive to the roots of all ſorts of Corn, Peas, Beans, and Turneps; the ſilver medal and ten guineas.

The Accounts to be produced on or before the firſt Tueſday in January, 1790,

Premiums for Diſcoveries and Improvements in Chemiſtry, Dying, and Mineralogy.

145. KELP. For the greateſt quantity, not leſs than four tons, of Kelp, containing a much larger proportion of Alkaline Salt than any Kelp now made for ſale, twenty pounds.

A ſpecimen of one hundred weight to be produced on or before the firſt Tueſday in January, 1790; together with Certificates that the whole quantity is equal to the ſpecimen, and made in Great Britain or Ireland, of Sea Weed.

146. BARILLA. For the greateſt quantity of merchantable Barilla, not leſs than half a ton, made from Spaniſh Kali raiſed in Great Britain, the gold medal.

A ſample of not leſs than twenty-eight pounds, with a Certificate that half a ton has been made, to be produced on or before the firſt Tueſday in January, 1790.

147.

147. DISSERTATION ON ALKALI.

To the perſon who ſhall compoſe the beſt diſſertation on the nature and qualities of vegetable and mineral Alkali, containing an account of their analogy to each other, and of the moſt eſſential properties wherein they differ; together with any uſeful remarks that may have eſcaped the notice of chemical writers; explaining alſo the means of ſeparating them from each other, but more particularly from ſea ſalt, or other neutral ſalts which are frequently found united with them; ſo that, when purified, they may be advantageouſly uſed in ſuch manufactures wherein the admixture of neutral ſalts is detrimental; laſtly, an inveſtigation into the nature of their compoſition, and the method of decompounding them into their conſtituent principles; the gold medal, or fifty pounds.

The Diſſertation to be produced to the Society on or before the firſt Tueſday in March, 1790.

148.

148. PRESERVING SEEDS OF VEGETABLES. For the beſt method of preſerving the Seeds of Plants in a ſtate fit for vegetation a longer time than has hitherto been practiſed, ſuch method being ſuperior to any known to the public, and verified by ſufficient trial; to be communicated to the Society on or before the firſt Tueſday in December, 1789; the gold medal.

149. DESTROYING SMOKE. For the beſt Account, aſcertained by proper experiments, of a method of deſtroying or burning the ſmoke of fires belonging to Steam Engines, Furnaces employed in calcining or ſmelting metals, or other large works, in order to prevent annoyance to the neighbourhood; to be produced on or before the firſt Tueſday in January, 1790; the gold medal.

150. The ſame premium is extended one year further.

The

The Accounts to be produced on or before the firſt Tueſday in January, 1791.

151. CANDLES FROM RESIN. To the perſon who ſhall diſcover to the Society the beſt method of ſo reducing the inflammable quality of Reſin, as to adapt it to the purpoſes of making Candles fit for common uſe, at a price much inferior to that of Candles made of Tallow only; the gold medal, or thirty guineas.

Six pounds at leaſt of the Candles ſo prepared, with an Account of the proceſs, to be delivered to the Society on or before the firſt Tueſday in December, 1789.

152. REFINING FISH OIL. For diſcloſing to the Society an effectual method of purifying Fiſh Oil from the glutinous matter that encruſts the wicks of lamps, and extinguiſhes the light, though fully ſupplied with oil, the gold medal, or fifty guineas.

It is required that the whole of the proceſs be fully and fairly diſcloſed, in order that

that ſatisfactory experiments may be made by the Society to determine the validity of the claim; and that Certificates that not leſs than twenty gallons have been purified according to the proceſs delivered in, muſt, together with two gallons of the Oil in its unpurified ſtate, and two gallons ſo refined, be produced to the Society on or before the ſecond Tueſday in February, 1790.

The ſame premium is extended one year further.

CERTIFICATES and ſamples to be produced on or before the ſecond Tueſday in February, 1791.

153. SUBSTITUTE FOR, OR PREPARATION OF, YEAST. For diſcovering to the Society an effectual Subſtitute for Yeaſt, or preparation of Yeaſt, which, after being kept two months, ſhall be fit for fermenting liquors, and raiſing bread; the gold medal, or twenty pounds.

Specimens of the Subſtitute, or of the preparation of Yeaſt, ſufficient for trials, together

together with a paper ſealed up, and containing an account of the compoſition of the Subſtitute, or method of preparing the Yeaſt, to be produced on or before the laſt Tueſday in November, 1789.

154. INCREASING STEAM. To the perſon who ſhall diſcover to the Society a method, verified by actual experiments, of increaſing the quantity or the force of Steam, in Steam Engines, with leſs fuel than is uſually employed, provided that in general the whole amount of the expences in uſing Steam Engines may be conſiderably leſſened; the gold medal, or thirty guineas.

To be communicated to the Society on or before the firſt Tueſday in January, 1790.

N. B. As it is well known there are methods of preventing the ebullition of liquids by the addition of particular matters in the boiling, it is ſubmitted to the conſideration

ſideration of the ingenious, whether, by the addition of ſome matters, or by ſome mechanical operations, the boiling and evaporation may not be increaſed.

155. The ſame premium is extended one year further.

To be communicated to the Society on or before the firſt Tueſday in January, 1791.

156. PREVENTING THE DRY-ROT IN TIMBER. To the perſon who ſhall diſcover to the Society the cauſe of the Dry-Rot in Timber, and diſcloſe a certain method of prevention ſuperior to any hitherto known, the gold medal, or the ſilver medal and ten guineas.

The Accounts of the cauſe, and method of prevention, confirmed by repeated experiments, to be produced to the Society on or before the ſecond Tueſday in December, 1789.

157.

157. The ſame premium is extended one year further.

The Accounts to be produced on or before the ſecond Tueſday in December, 1790.

158. FINE BAR-IRON. To the perſon in England or Wales, who ſhall make, in the year 1788, the greateſt quantity of Bar-Iron, not leſs than ten tons, with Coak, from Coak Pigs, equal in quality to the beſt Iron imported from Sweden or Ruſſia, and as fit for converting into Steel; the gold medal.

Samples, not leſs than one hundred weight, with Certificates that the whole quantity is of equal quality, to be produced to the Society on or before the firſt Tueſday in January, 1790.

159. The ſame premium is extended one year further.

SAMPLES and CERTIFICATES to be delivered on or before the firſt Tueſday in January, 1791.

160.

160. METHOD OF PREPARING WHITE LEAD WHICH SHALL NOT BE PREJUDICIAL. To the perſon who ſhall diſcover to the Society a method of preparing White Lead, in a manner that ſhall not be prejudicial to the health of the workmen employed either in making or uſing it, and will anſwer all the purpoſes for which White Lead is at preſent uſed, fifty pounds.

A quantity of the White Lead ſo prepared, with an account of the proceſs made uſe of, and Certificates that not leſs than one ton has been manufactured in the ſame manner, to be produced to the Society on or before the ſecond Tueſday in November, 1789.

161. The ſame premium is extended one year further.

CERTIFICATES and Accounts to be produced to the Society on or before the ſecond Tueſday in November, 1790.

162.

162. SUBSTITUTE FOR THE BASIS OF PAINT. To the perſon who ſhall produce to the Society the beſt ſubſtitute, ſuperior to any hitherto known, for the Baſis of Paint, equally proper for the purpoſe as the White Lead now employed; ſuch Subſtitute not to be of a noxious quality, and which may be afforded at a price not materially higher than that of White Lead; thirty pounds.

A quantity of the Subſtitute, not leſs than fifty pounds weight, with an Account of the proceſs uſed in preparing it, and Certificates that at leaſt five hundred weight has been manufactured, to be produced to the Society on or before the ſecond Tueſday in November, 1789.

163. The ſame premium is extended one year further.

CERTIFICATES and Accounts to be produced on or before the ſecond Tueſday in November, 1790.

164. REFINING BLOCK TIN. To the perſon who ſhall diſcover to the Society the beſt method of purifying or refining *Block Tin*, in ſuch manner as to render it fit for the finer purpoſes to which *Grain Tin* is now ſolely applied, the gold medal, or fifty pounds.

CERTIFICATES that not leſs than three tons have been refined or purified, with a full detail of the proceſs, and a quantity, not leſs than one hundred weight, of the Tin ſo refined, to be produced to the Society on or before the firſt Tueſday in November, 1790.

Premiums

Premiums for promoting the Polite Arts.

165. HONORARY PREMIUMS FOR DRAWINGS. For the beſt Drawing of any kind, made with Crayons, Chalk, Black Lead, Pen, Indian Ink, or Biſter, by young Gentlemen under the age of twenty-one, ſons or grandſons of Peers, or Peereſſes in their own right, of Great Britain or Ireland; to be produced on or before the firſt Tueſday in March, 1790; the honorary medal of the Society in gold.

166. The ſame in ſilver, for the ſecond in merit.

167, 168. The ſame premiums will be given, on the like conditions, to young Ladies, daughters or grand-daughters of Peers, or Peereſſes in their own right, of Great Britain or Ireland.

169. HONORARY PREMIUMS FOR DRAWINGS. For the beſt Draw-

ings of any kind, made with Crayons, Chalk, Black Lead, Pen, Indian Ink, or Biſter, by young Gentlemen under the age of twenty-one; to be produced on or before the firſt Tueſday in March, 1790; the gold medal.

170. For the next in merit, the ſilver medal.

171, 172. The ſame premiums will be given for Drawings by young Ladies.

N. B. Perſons profeſſing any branch of the Polite Arts, or any buſineſs dependent on the arts of Deſign, or the ſons or daughters of ſuch perſons, will not not be admitted Candidates in theſe claſſes.

The

The following Premiums are offered in conformity to the Will of the late John Stock, of Hampſtead, Eſq.

173. SCULPTURE. For the beſt Model of the Buſt of his Royal Highneſs the PRINCE of WALES, as large as the life, to be produced on or before the third Tueſday in February, 1790, a ſilver medallion, with the following engraved inſcription: *The Premium given by the Society for the Encouragement of Arts, Manufactures, and Commerce, in conformity to the Will of John Stock, of Hampſtead, Eſq.*

A Caſt from the Model to which the Premium is adjudged, is to remain the property of the Society.

174. PORTRAIT. For the beſt Copy, in Oil Colours, of a Portrait of the late JOHN STOCK, of Hampſtead, Eſq. to be produced on or before the third Tueſday in

February, 1790, a ſilver medallion, with the following engraved inſcription: *The Premium given by the Society for the Encouragement of Arts, Manufactures, and Commerce, in conformity to the Will of John Stock, of Hampſtead, Eſq.*

175. DRAWINGS OF OUTLINES. For the beſt Outline after an original group or caſt, in plaſter, of Human Figures, by perſons of either ſex under the age of ſixteen, the principal figure not leſs than twelve inches; to be produced on or before the third Tueſday in February, 1790; the greater ſilver pallet.

176. For the next in merit, the leſſer ſilver pallet.

N. B. Theſe Drawings are to be made on Paper, with Chalk, Black Lead, Indian Ink, or Biſter; and the originals either to be produced to the Society, or to be referred to for their examination.

177.

177. DRAWINGS OF MACHINES. For the beſt Perſpective Drawing, by perſons of either ſex under the age of twenty-one years, of the Model of a Crane, by Mr. Bunce, in the Society's Repoſitory, ſhowing particularly the method of ſtopping the Wheel by the centrifugal force of the Ball, the greater ſilver pallet; to be produced on or before the third Tueſday in February, 1790.

N. B. Such Candidates as propoſe to make Drawings for this Premium, will be admitted by the Regiſter any day (Sundays or Wedneſdays excepted) between the hours of ten and two.

The Drawing to which the Premium is adjudged, is to remain the property of the Society.

178. DRAWINGS OF LANDSCAPES. For the beſt Drawing of a Landſcape after nature, by perſons of either ſex under twenty-one years of age, to be

produced on or before the third Tueſday in February, 1790, the greater ſilver pallet.

179. For the next in merit, the leſſer ſilver pallet.

Each Candidate muſt mention, on the front of the Drawing, from whence the View was taken; and the Drawings muſt be made with Chalk, Pen, Indian Ink, or Biſter.

180. HISTORICAL DRAWINGS. For the beſt Hiſtorical Drawing, being an original compoſition, of five or more Human Figures; the height of the principal Figure not leſs than eight inches; to be made with Crayons, Chalk, Black Lead, Pen, Indian Ink, or Biſter, and to be produced on or before the third Tueſday in February, 1790; the gold pallet.

181. For the next in merit, the greater ſilver pallet.

182.

182. ENGRAVING IN THE LINE MANNER. To the Engraver who ſhall produce to the Society the beſt engraved Plate, executed by himſelf, of the dimenſions of not leſs than twenty inches by ſixteen inches, containing not fewer than three Human Figures, the principal figure not leſs than twelve inches high; to be engraved in the LINE MANNER, from any old or modern Picture; the Plate to be publiſhed by the Engraver; the gold pallet, and twenty-five guineas.

The regular progreſs of the work, from the firſt Proof of the etching, to the finiſhed impreſſion of the Plate, to be produced to the Society on or before the firſt Tueſday in February, 1790.

183. The ſame premium is extended one year further.

The Impreſſions to be delivered on or before the firſt Tueſday in February, 1791.

184.

184. SURVEYS OF COUNTIES. To the perſon who, in the year 1791, ſhall complete and publiſh an accurate Survey of any one County in England or Wales, on a ſcale of not leſs than one inch to a mile, for which rewards have not already been given by the Society, the gold medal, or fifty pounds.

CERTIFICATES of the accuracy of the Survey, and that it was begun after the firſt of June, 1787, together with the Map, to be produced on or before the laſt Tueſday in January, 1792.

The Map to which the premium ſhall be adjudged, to remain the property of the Society.

N. B. The Society are already in poſſeſſion of Surveys of the following Counties, viz. Devonſhire, Derbyſhire, Somerſetſhire, Northumberland, Suffolk, Leiceſterſhire, Cumberland, and Lancaſhire,

185.

185. The ſame premium is extended one year further.

The Survey to be begun after the firſt of June, 1788, and the Map to be produced on or before the laſt Tueſday in January, 1793.

186. NATURAL HISTORY. To the Author who ſhall publiſh, in the year 1789, the Natural Hiſtory of any County of England or Wales, the gold medal, or fifty pounds.

It is required that the ſeveral natural productions, whether animal, vegetable, or mineral, peculiar to the county or found therein, be carefully and ſpecifically arranged and deſcribed, in order that the Public may be enabled to judge what Arts or Manufactures are moſt likely to ſucceed in ſuch County.

The Work to be delivered to the Society on or before the laſt Tueſday in January, 1790.

187.

187. The ſame premium is extended one year further.

The Work to be delivered to the Society on or before the laſt Tueſday in January, 1791.

CON-

CONDITIONS.

NO perſon who has gained the firſt Premium in any Claſs, will be admitted a Candidate in a Claſs of an inferior age; and no Candidate ſhall receive more than one Premium in one year; nor will they who for two ſucceſſive years ſhall gain the firſt Premium in one Claſs, be ever again admitted as Candidates in that Claſs.

No Perſon ſhall ever be admitted a Candidate in any Claſs, in which he has three times obtained the whole of the firſt Premium.

No Candidate ſhall ſend in more than one Performance in any one Claſs.

All the Claims which are produced each year before the Committee of Polite Arts (to which Premiums or Bounties are adjudged)

judged) are to remain with the Society ſix weeks after the determination, unleſs the Candidates, for particular reaſons, do apply to have their performances returned.

No Claim for a Premium in the Polite Arts will be admitted, that has obtained, or has been produced in order to obtain, a Premium, Reward, or Gratification from any other Society, or any Academy or School.

All Performances that obtain Premiums in the Polite Arts, muſt be begun after the publication of ſuch Premiums.

Purpoſely to encourage real merit, and to prevent any attempts to impoſe on the Society, by producing Drawings which ſhall have been made or retouched by any other perſon than the Candidate, the Society is reſolved upon all occaſions, with reſpect to the ſucceſsful Candidates in Claſſes

Claſſes 175 to 181 incluſive, to prove their abilities, by requiring a ſpecimen made under the inſpection of the Committee of Polite Arts, in every inſtance where ſuch proof can be obtained.

Premiums

Premiums for encouraging and improving Manufactures.

188. SILK. For the greateſt quantity of merchantable Silk, not leſs than five pounds, produced by any one perſon in England, in the year 1789, the gold medal.

Specimens of the Silk, not leſs than one pound, with Certificates that the whole is of equal quality, and produced in England, to be delivered to the Society on or before the firſt Tueſday in January, 1790.

189. For the ſecond greateſt quantity, not leſs than two pounds, the ſilver medal.

190. MACHINE FOR CARDING SILK. For the beſt Machine, ſuperior to any now in uſe, for carding Waſte Silk equally well as by hand; to be produced, together

together with a ſpecimen of the Cardings, on or before the firſt Tueſday in November, 1789; the gold medal, or twenty pounds.

191. WEAVING FISHING-NETS. For the beſt ſpecimen of Plain Netting, for Fiſhing-Nets, not leſs than twenty yards long, and ſix feet deep, woven in a Loom, or other Machine; to be produced to the Society on or before the ſecond Tueſday in January, 1790; fifty guineas.

N. B. It is expected that the Specimen produced be made in ſuch a manner, as to be cut and joined without more loſs than uſual, that it have ſuch a plain ſelvage as the common Fiſhing Nets, and that the Knot be equally faſt with thoſe in Nets in common uſe, and as eaſily repaired.

192. A ſtrong CLOTH being prepared in SWEDEN from HOP-STALKS, or BINDS, the Society will give the gold medal, or twenty pounds, as a Premium

for the beſt and greateſt quantity of ſuch Cloth, not leſs than twenty-five yards, made in England, and produced to the Society on or before the ſecond Tueſday in December, 1789.

One pound at leaſt of the Thread to be produced with the Claim.

193. The ſame premium is extended one year further.

The Cloth and Thread to be produced to the Society on or before the ſecond Tueſday in December, 1790.

194. The ſame premium is extended one year further.

The Cloth and Thread to be produced to the Society on or before the ſecond Tueſday in December, 1791.

195. PAPER FROM RAW VEGETABLE SUBSTANCES. To the perſon in England or Wales who ſhall make the greateſt quantity, not leſs than fifty reams,

reams, of the beſt and moſt uſeful Paper, from Raw Vegetable Subſtances, twenty guineas.

CERTIFICATES of the making ſuch Paper, and one ream of the Paper, to be produced on or before the firſt Tueſday in November, 1789.

N. B. The Society are in poſſeſſion of two volumes, containing a great variety of ſpecimens of Paper made from Raw Vegetables, viz. Thiſtles, Potatoe-Haum, Poplar, Hop-Binds, &c. which volumes may be inſpected by any perſon on application to the Regiſter.

Premiums for Inventions in Mechanicks.

196. TRANSIT INSTRUMENT. To the perſon who ſhall invent and produce to the Society a cheap and portable Tranſit Inſtrument, which may eaſily be converted into a Zenith Sector, capable of being accurately and expeditiouſly adjuſted for the purpoſes of finding the Latitudes and Longitudes of places, and ſuperior to any portable Tranſit Inſtrument now in uſe; the gold medal, or thirty guineas.

To be produced on or before the laſt Tueſday in January, 1790.

197. GUN-HARPOON. For every Whale, taken by means of the Gun-Harpoon, to the perſon who firſt ſtrikes ſuch fiſh therewith, three guineas.

N. B. Proper Certificates of the taking ſuch Whales, in the year 1789, ſigned by the Maſter, or by the Mate when the Claim is

is made by the Maſter, to be delivered to the Society on or before the laſt Tueſday in December, 1789.

198. GUN FOR THROWING HARPOONS. To the perſon who ſhall produce to the Society the beſt improvement in the conſtruction of a Gun for throwing Harpoons, ſo as to render it more manageable than thoſe at preſent in uſe; the ſilver medal, or ten guineas.

The Gun to be produced to the Society on or before the firſt Tueſday in December, 1789.

199. HARPOON TO BE THROWN BY A GUN. To the perſon who ſhall produce to the Society the beſt improvement in the conſtruction of a Harpoon to be thrown by a Gun; the Harpoon to be ſo contrived, that it may ſtrike and hold the Fiſh with more certainty and greater effect than any hitherto made uſe of; the ſilver medal, or ten guineas.

The Harpoon to be produced to the Society on or before the firſt Tueſday in December, 1789.

200. INSTRUMENT FOR THROWING HARPOONS. To the perſon who ſhall produce to the Society the beſt conſtructed Inſtrument to be uſed in the Whale Fiſhery, for throwing Harpoons with more advantage and greater effect than the Gun, or any other Inſtrument now in uſe; the ſilver medal, or ten guineas.

To be delivered to the Society on or before the firſt Tueſday in December, 1789.

201. HARPOON. For every Whale taken by means of a Harpoon ſhot from any other inſtrument than a Gun, to the perſon who firſt ſtrikes ſuch fiſh therewith, three guineas.

Proper Certificates of the taking ſuch Whales in the year 1789, ſigned by the Maſter, or by the Mate when the Claim

is

is made by the Maſter, to be delivered to the Society on or before the laſt Tueſday in December, 1789.

202. DRIVING BOLTS INTO SHIPS. To the perſon who ſhall invent and produce to the Society a Model, ſhowing a method of driving Bolts into Ships, particularly thoſe of Copper, without ſplitting the Head or bending them, with more diſpatch, in all directions, and tighter, than by any means hitherto known or in uſe; twenty guineas.

The Model to be produced to the Society on or before the firſt Tueſday in February, 1790.

203. IMPROVEMENT OF THE HAND VENTILATOR. To the perſon who ſhall produce to the Society on or before the laſt Tueſday in February, 1790, a Portable Ventilator, to be worked by hand, better adapted and more efficacious for extracting foul air from Gaols,

Priſons, and Ships, than any now known or in uſe; the gold medal, or twenty guineas.

204. CRANES FOR WHARFS. To the perſon who ſhall invent and produce to the Society a Model of a Crane for Wharfs, on a ſcale of not leſs than one inch to a foot; the conſtruction to be ſuch that the effect of the power may be varied according to the weight to be raiſed, in a manner different from any now known or in uſe, yet more ſimple and effectual; the gold medal, or twenty guineas.

To be produced on or before the firſt Tueſday in February, 1790.

205. METAL ROPE OR CHAIN. To the Perſon who ſhall have invented a Chain or Rope of Copper, or other Metal, ſuperior to any hitherto made, ſufficiently flexible to work well, and IN ALL DIRECTIONS, over pullies, and which ſhall ſerve every purpoſe of a good Hempen Rope of at leaſt two inches diameter; fifty pounds.

The

The Candidate to produce to the Society ſatisfactory Certificates that ſuch Metal Rope or Chain has been uſed to advantage in manufactories, or large works, where Hempen Ropes have been hitherto employed.

The Certificates, and a ſample of the Metal Chain or Rope, not leſs than ten yards long, to be produced to the Society on or before the firſt Tueſday in November, 1789.

Although it is well known that the effect of the wind on Horizontal Sails is greatly inferior to that on thoſe which move in a vertical direction, yet as there are ſome circumſtances and ſituations where it would be moſt convenient to erect an Horizontal Mill, the Society do therefore offer the following Premium.

206. HORIZONTAL WINDMILL. To the perſon who ſhall invent and produce

duce to the Society a Model of an Horizontal Windmill, on a ſcale of not leſs than one inch to a foot, ſuperior to thoſe already in uſe, the gold medal, or twenty guineas.

To be delivered to the Society on or before the firſt Tueſday in February, 1790.

207. HAND MILL. To the perſon who ſhall produce to the Society a better conſtructed Hand Mill, for general purpoſes, than any now known or in uſe, the ſilver medal, or ten guineas.

To be delivered to the Society on or before the laſt Tueſday in December, 1789.

208. MACHINE FOR RAISING COALS, ORE, &c. &c. To the perſon who ſhall invent a Machine for raiſing Coals, Ore, &c. from Mines, which ſhall produce the effect at a leſs expence than thoſe already known or in uſe; the gold medal, or twenty guineas.

A Model

A Model of the Machine, made on a ſcale of not leſs than one inch to a foot, to be produced to the Society on or before the ſecond Tueſday in February, 1790.

209. MACHINE FOR RAISING WATER. To the perſon who ſhall invent a Machine on a better, cheaper, and more ſimple conſtruction than any hitherto in uſe, for raiſing Water out of Wells, &c. from a depth not leſs than fifty feet; thirty guineas.

CERTIFICATES of the performance of the Machine, and a Model of it, on a ſcale of not leſs than one inch to a foot, to be produced to the Society on or before the firſt Tueſday in February, 1790.

210. MACHINE FOR CLEARING RIVERS. For the beſt Model of a Machine, ſuperior to any now in uſe, for clearing Navigable Rivers from Weeds at the leaſt expence, ten guineas.

To

To be produced to the Society on or before the firſt Tueſday in February, 1790.

211. METHOD OF EXTINGUISHING FIRES. To the perſon who ſhall produce to the Society the moſt ſpeedy and effectual method of extinguiſhing Fires in Houſes or other Buildings, ſuperior to any hitherto known or in uſe, the gold medal, or thirty guineas.

To be produced on or before the ſecond Tueſday in February, 1790.

Premiums

Premiums offered for the Advantage of the Britiſh Colonies.

212. NUTMEGS. For the greateſt quantity of merchantable Nutmegs, not leſs than five pounds weight, being the growth of his Majeſty's dominions in the Weſt Indies, and equal to thoſe imported from the Iſlands of the Eaſt-Indies; the gold medal, or one hundred pounds.

Satisfactory Certificates, from the Governor, Lieutenant-governor, Preſident of the Council, or Speaker of the Houſe of Aſſembly, of the place of growth, with an account of the number of trees, their age, nearly the quantity of fruit on each tree, and the manner of culture, to be produced on or before the firſt Tueſday in December, 1789.

213. The ſame Premium is extended one year further.

CERTIFICATES to be produced on or before the ſecond Tueſday in December, 1790.

N. B. Any perſon deſirous of information on the ſubject of Nutmeg-trees, may obtain it from a Memorial on the Fructification of the Nutmeg, and the ſureſt method of cultivating it to advantage, by the King's Gardener at the Iſle of Bourbon, inſerted in Mr. Maty's Review for Auguſt 1783.

214. CINNAMON. For importing into the port of London, in the year 1790, the greateſt quantity, not leſs than twenty pounds weight, of Cinnamon, being the growth of ſome of the Iſlands in the Weſt-Indies belonging to the Crown of Great Britain, and equal in goodneſs to the Cinnamon brought from the Eaſt-Indies, the gold medal, or fifty pounds.

Samples, not leſs than two pounds weight, with Certificates that the whole quantity

quantity is equal in goodneſs; together with ſatisfactory Certificates, ſigned by the Governor, Lieutenant-governor, Preſident of the Council, or Speaker of the Houſe of Aſſembly, of the place of growth, with an account of the number of trees growing on the ſpot, their age, and the manner of culture; to be produced to the Society on or before the firſt Tueſday in January, 1791.

215. BREAD-FRUIT TREE. To the perſon who, in the year 1789, ſhall convey from the Iſlands of the South Sea, to any of the Iſlands in the Weſt Indies ſubject to the Crown of Great Britain, the greateſt number, not fewer than ſix, of one or both ſpecies of the Bread-fruit Tree, in a growing ſtate; the gold medal.

CERTIFICATES, ſigned by the Governor or Lieutenant-governor of the Iſland, of the importation of the trees, and of the ſtate they were in at the time of ſigning ſuch Certificates, to be delivered to the Society

Society on or before the ſecond Tueſday in October, 1790.

216. The ſame Premium is extended one year further.

CERTIFICATES to be produced on or before the ſecond Tueſday in October, 1791.

217. The ſame Premium is extended one year further.

CERTIFICATES to be produced on or before the ſecond Tueſday in October, 1792.

THE SOCIETY being informed that a conſiderable quantity of Oil can be obtained from the Seed of Cotton; and that, after the expreſſion of the Oil, the remaining Cake will afford a ſtrong and hearty Food for Cattle; and likewiſe, that the apparatus for the operation can be applied to the Mill for Sugar Canes, and worked in the rainy ſeaſon at a moderate expence;—have reſolved, for the foregoing reaſons, that the procuring

procuring Oil from the Seed of Cotton is a proper object of a Premium, conſidered as an encouragement for Planters to extend the cultivation of Cotton, an article eſſentially requiſite to increaſe the manufacture of that commodity in this country.

The Society therefore offer as follows:

218. OIL FROM COTTON SEED. To the Planter in any of the Britiſh Iſlands of the Weſt Indies, who ſhall expreſs Oil from the Seed of Cotton, and make from the remaining Seed hard and dry Cakes, as Food for Cattle, the gold medal.

CERTIFICATES that no leſs than one ton of the Oil has been expreſſed, and five hundred weight of the Cakes obtained, to be produced to the Society, with two gallons of the Oil, and two dozen of the Cakes, together with a full account of the proceſs, on or before the laſt Tueſday in November, 1789.

219. For the next greateſt quantity, not leſs than half a ton of Oil, and two dozen of the Cakes, the ſilver medal.

220. SENNA. To the perſon who ſhall import into the port of London, in the year 1789, the greateſt quantity of Senna, not leſs than two hundred weight, the growth of any of the Britiſh Iſlands in the Weſt Indies, and equal to the ALEXANDRIAN SENNA now uſed for medicinal purpoſes; the gold medal.

CERTIFICATES of the growth and method of culture to be produced to the Society on or before the firſt Tueſday in February, 1790.

221. The ſame premium is extended one year further.

CERTIFICATES to be produced on or before the firſt Tueſday in February, 1791.

222. KALI FOR BARILLA. To the perſon who ſhall cultivate in the Bahama Iſlands, or any other part of his Majeſty's

Majeſty's dominions in the Weſt Indies, in the year 1788, the greateſt quantity of land, not leſs than five acres, with Spaniſh Kali, fit for the purpoſe of making Barilla; the gold medal.

223. For the next greateſt quantity not leſs than three acres, the ſilver medal.

CERTIFICATES, ſigned by the Governor, Lieutenant-governor, or other chief Magiſtrate, of the quantity of land ſo cultivated, and of the ſtate of the Plants at the time of ſigning ſuch Certificates, to be delivered to the Society on or before the ſecond Tueſday in November, 1789.

224, 225. The ſame premiums are extended one year further.

CERTIFICATES to be delivered on or before the ſecond Tueſday in November, 1790.

226, 227. The ſame premiums are extended one year further.

CERTIFICATES to be produced on or before the ſecond Tueſday in November, 1791.

228. CASHEW GUM. To the perſon who, in the year 1789, ſhall import into the port of London, from any of the Britiſh Iſlands in the Weſt Indies, the greateſt quantity, not leſs than half a ton, of the Gum of the Caſhew Tree, which on trial has been found to anſwer the purpoſe of Gum Senegal, in Callico-printing, Silk-dying, &c. the gold medal, or thirty guineas.

A Sample, not leſs than twenty pounds weight, and Certificates that the whole quantity is of the ſame quality, and free from leaves and dirt, to be produced to the Society on or before the ſecond Tueſday in January, 1790.

229. The ſame premium is extended one year further.

CERTI-

CERTIFICATES and Samples to be produced on or before the ſecond Tueſday in January, 1791.

230. The ſame premium is extended one year further.

CERTIFICATES and Samples to be produced on or before the ſecond Tueſday in January, 1792.

Society's Office, Adelphi, May 24, 1789.

Ordered,

THAT THE SEVERAL CANDIDATES AND CLAIMANTS TO WHOM THE SOCIETY SHALL ADJUDGE PREMIUMS OR BOUNTIES, DO ATTEND AT THE SOCIETY'S OFFICE IN THE ADELPHI, ON THE LAST TUESDAY IN MAY, 1790, AT TWELVE O'CLOCK AT NOON, TO RECEIVE THE SAME; THAT DAY BEING APPOINTED BY THE SOCIETY FOR THE DISTRIBUTION OF THEIR REWARDS: AND BEFORE THAT TIME NO PREMIUM OR BOUNTY WILL BE DELIVERED, EXCEPTING TO THOSE WHO ARE OUT OF THE KINGDOM, OR PREVENTED BY UNAVOIDABLE ACCIDENTS.

IN CASES WHERE PERSONAL ATTENDANCE CANNOT BE GIVEN, DEPUTIES MAY BE SUBSTITUTED TO RECEIVE REWARDS.

GENERAL

GENERAL CONDITIONS.

NOTWITHSTANDING the Society reſerve to themſelves the power of giving, in all caſes, ſuch part only of any Premium as the Performance ſhall be adjudged to deſerve, or of withholding the whole, if there be no merit; yet the Candidates may be aſſured the Society will always judge liberally of their ſeveral Claims.

It is required, that the matters for which Premiums are offered, be delivered in without names, or any intimation to whom they belong; that each particular thing be marked in what manner each Claimant thinks fit, ſuch Claimant ſending with it a paper ſealed up, having on the outſide a correſponding mark, and on the inſide the Claimant's name and addreſs: and all Candidates are to take notice, that no Claim for a Premium will be attended to, unleſs the

conditions of the Advertiſement are fully complied with.

No Papers ſhall be opened, but ſuch as ſhall gain Premiums, unleſs where it appears to the Society abſolutely neceſſary for the determination of the Claim; all the reſt ſhall be returned unopened, with the Matters to which they belong, if inquired after by their Marks, within two years; after which time, if not demanded, they ſhall be publicly burnt, unopened, at ſome meeting of the Society.

All Models of Machines, which obtain Premiums or Bounties, ſhall be the property of the Society.

All the Premiums of this Society are deſigned for that part of Great Britain called England, the dominion of Wales, and the town of Berwick upon Tweed, unleſs expreſsly mentioned to the contrary.

The

The Claims ſhall be determined as ſoon as poſſible after the delivery of the Specimens.

No perſon ſhall receive any Premium, Bounty, or Encouragement, from the Society, for any Matter for which he has obtained, or propoſes to obtain, a Patent.

A Candidate for a Premium, or a perſon applying for a Bounty, being detected in any diſengenuous method to impoſe on the Society, ſhall forfeit ſuch Premium or Bounty, and be deemed incapable of obtaining any for the future.

The Performances which each year obtain Premiums or Bounties, are to remain with the Society until the end of May, except as mentioned in the Conditions annexed to the Premiums offered for promoting the Polite Arts.

No Member of this Society ſhall be a Candidate for, or entitled to receive, any Premium,

Premium, Bounty, or Reward whatſoever, except the Honorary Medal of the Society.

Where Certificates are required to be produced in claim of Premiums, they ſhould be expreſſed, as nearly as poſſible, in the words of the reſpective advertiſements, and ſhould not be from the Candidate (ſolely), but from ſome other perſon or perſons who have a poſitive knowledge of the facts certified.

Where Premiums or Bounties are obtained in conſequence of ſpecimens produced, the Society mean to retain ſuch part of thoſe ſpecimens as they may judge neceſſary, making a reaſonable allowance for the ſame.

No Candidate ſhall be preſent at any meetings of the Society or Committees, or admitted at the Society's Rooms, after they have delivered in their Claims, until ſuch Claims are adjudged, unleſs ſummoned by the Committee.

N. B.

N. B. Any information or advice that may forward the deſigns of this Society for the public good, will be received thankfully, and duly conſidered, if communicated by letter, addreſſed to the Society, and directed to Mr. MORE, the Secretary, at the Society's Office, in the Adelphi Buildings, London.

*** In caſe any perſon ſhould be inclined to leave a ſum of money to this Society, by will, the following form is offered for that purpoſe:

Item. I give and bequeath unto A. B. and C. D. the ſum of upon condition and to the intent that they, or one of them, do pay the ſame to the Collector for the time being, of a Society in London,

London, who now call themſelves the Society for the Encouragement of Arts, Manufactures, and Commerce; which ſaid ſum of I will and deſire may be paid out of my perſonal eſtate, and applied towards the carrying on the laudable deſigns of the Society.

By order of the Society,

SAMUEL MORE, Secretary.

A LIST